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Patent Number	7,066,198 B2
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Application Number	10/749,968
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First Named Inventor	Jason L Smith
Attorney Docket Number	

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US007066198B2

(12) **United States Patent**
Smith

(10) Patent No.: **US 7,066,198 B2**
(45) Date of Patent: **Jun. 27, 2006**

(54) **PRESSURIZED FLUID CONTROLLER
USING TILT / PUSH / PULL OPERATOR**

(76) Inventor: **Jason L. Smith, Junction Way, San
Jose, CA (US) 95131**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 104 days.

(21) Appl. No.: **10/749,968**

(22) Filed: **Jan. 2, 2004**

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F16P 1/00 (2006.01)

(52) U.S. Cl. **137/377; 137/636**

(58) Field of Classification Search **137/636.2,
137/636.3, 636, 377**

See application file for complete search history.

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Primary Examiner—Eric Keasel

Assistant Examiner—Craig Schneider

(74) Attorney, Agent, or Firm—Paul Hentzel

(57) **ABSTRACT**

An intuitive pressurized fluid controller using tilt/push/pull (3 axis) operator includes a swivel joint such that it can move axially and tilt. A first array of valves is arranged to be activated as the lever tilts. A second array of valves is arranged so they can be activated when the lever is pulled axially. A third array of valves is arranged so they can be activated when the lever is pushed axially. When plumbed to a plurality of pressurable positioners supporting heavy equipment, the first array of valves can control the equipment pitch and roll as the lever is tilted, and the second/third arrays of valves can control the equipment elevation as the lever is pulled/pushed.

4 Claims, 6 Drawing Sheets

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Wayne, PA 19087

